

**MULTIFUNCTION TRANSDUCER AND METHOD OF DRIVING****ABSTRACT OF DISCLOSURE**

5       Multi-function transducers (130, 700) that are suitable for use in handheld devices such as cellular telephones (100, 900) and are capable of emitting audio, and generating accelerations of sufficient magnitude, and at frequencies that can be sensed by tactile sensation and which exhibit resonant modes that are characterized by center frequencies within a frequency range that can be sensed by tactile sensation, and

10      specifically located between two musical notes on a musical scale are provided. Devices (100, 900) including such transducer are provided, and methods of operating such transducers are provided.